

## CONCRETE PUMPING AID & PUMP PRIMER

### ADVANTAGES

- Increases ease and range of pumpability.
- Decreases wear on equipment.
- Decreases horsepower required for pumping.
- Reduces friction and line pressure.
- Improves mobility and consolidation.
- Minimizes slump and air loss through pump lines.
- Reduces dewatering of concrete.
- Slick-Pak II is packaged in ready-to-use water soluble Fritz-Pak inner bags for convenient use at the plant or job site.

### DESCRIPTION

Slick-Pak II is a dry powdered concrete pumping aid packaged in a patented, ready-to-use, water soluble bag. Slick-Pak II is uniquely formulated to provide the concrete pumper with a cost effective method for improving the pumpability of hard to pump and/or harsh concrete and grout mixes. Additionally, Slick-Pak II reduces line pressure, improves flow properties and increases the rate and range of pumpability. Slick-Pak II does not contain calcium chloride, nitrates, nitrites or other potentially corrosive materials and is compatible with all standard concrete admixtures. In addition, Slick-Pak II contains no bentonite, cementitious materials, soaps or air entraining agents.

### DIRECTIONS

#### **AS A PUMPING AID**

1. Determine the amount of Slick-Pak II required. See Recommend Dosage Rate.
2. Each Slick-Pak II is double bagged. Remove the protective outer bag and add the patented water soluble Fritz-Pak inner bag directly to the concrete or grout mix in the ready-mix truck. The entire inner bag will easily dissolve.
3. Mix at high speed for 7 to 10 minutes to insure that the Slick-Pak II is uniformly dispersed throughout the mix.
4. Additional Slick-Pak II may be added if necessary.

#### **AS A CONCRETE PUMP PRIMER**

Use one water soluble inner bag in 5-15 gallons (20-60 liters) of water to prime 100 ft of 5 inch pump line. Double the water if the concrete contains superplasticizers. Remove the protective outer bag and add the water soluble inner bag



directly into water. Mix for 1-2 minutes and allow the mixture to set for at least 5 minutes. Pour into the priming port or hopper just prior to pumping. It is possible to mix the product directly in the hopper.

### PUMP PRIMING NOTES

**Remember, as with any pump priming material, the first few gallons of concrete will have a higher water content than the mix behind, which may affect certain pours, such as slabs and columns. To avoid potential problems discard the first few gallons.**

When the concrete contains superplasticizers, we recommend doubling the amount of water used to prepare the Slick-Pak II solution for pump priming.

### RECOMMENDED DOSAGE RATE

Use a dosage rate equal to 1.5 to 2.5 ounces per cubic yard (50-100 grams per cubic meter) of concrete or grout. Typically, one 8 ounce (227 gram) bag will treat 4-5 cubic yards (3-4 cubic meters). This dosage of Slick-Pak II is recommended to increase the pumpability of harsh mixes, hard to pump mixes and concrete mixes with a potential problem from gap-graded aggregates. Concrete temperature, ambient temperature or concrete mixes containing accelerators, retarders or special admixtures such as silicafume may require dosage rates outside of the recommended range. Contact your local Fritz-Pak representative or distributor with any questions concerning the usage of this product. It is recommended that testing be done

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to determine the suitability of Slick-Pak II to your particular application. As an additive to concrete, Slick-Pak II has no deleterious effects on the structural integrity of the concrete.

### **COMPATIBILITY**

Slick-Pak II is compatible with all standard concrete materials as well as other concrete admixtures. When used with other admixtures, each one must be dispensed separately into the mix.

### **PACKAGING**

- 8-oz (227-g) water soluble bag, 60 bags per case, 42 cases per pallet (item #97136)

### **FAQs**

- Q. How does Slick-Pak II work?
- A. It contains water thickeners and lubricating agents. As Slick-Pak II goes through the pipes and hoses it leaves a coat of water and lubricating agents and effectively wets all surfaces. As the concrete comes behind the Slick-Pak II it does not lose water and the lubrication allows it to slip through the pipe.
- Q. What is the difference between Slick-Pak and Slick-Pak II?
- A. Both products have water thickeners and lubricating agents. Slick-Pak has a higher proportion of lubricating agents than Slick-Pak II, thus it is better used as a pump primer. Slick-Pak II has a higher proportion of thickeners, thus it is better suited as a pumping aid, as well as being an excellent pump primer
- Q. Does Slick-Pak II have fluid loss properties?
- A. Yes. The thickeners used in Slick-Pak II work as fluid loss additives in the concrete.
- Q. If I have a long run of hose or pipe, should I increase the Slick-Pak II concentration to make it more effective?
- A. No. A too-high concentration may thicken the concrete excessively and produce a plug in the line. It is better to increase the volume of Slick-Pak II used to insure complete coverage and wetting of the line.

- Q. What is the best way to prime horizontal lines?
- A. Slick-Pak II will tend to run on the lower part of the line, it is recommended to use a rubber ball in front of the priming solution to avoid only wetting the bottom of the line.
- Q. Why do I get plugs when priming for concrete with superplasticizers?
- A. Slick-Pak II requires water to hydrate, so when Slick-Pak II is made with too little water it will absorb water from the concrete in order to hydrate. Concrete with superplasticizers tends to have a low water content, so if the Slick-Pak II absorbs any water from the plasticized concrete, it will have a tendency to plug. For priming for concrete with superplasticizers, we recommend increasing



water content be used to prepare the priming solution.

- Q. If I do not have a bucket available, can I prepare the priming solution in the hopper?
- A. Yes. Most operators do it that way. Be sure that the bag dissolves completely by directing the water stream over it.
- Q. How long in advance do I need to prepare my priming solution?
- A. You need at least 5-10 minutes for the product to dissolve. Once it dissolves, it will stay stable for several hours, so you can

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prepare your priming solution well before the concrete arrives.

- Q. Can Slick-Pak II be added directly into the Ready Mix truck?
- A. Yes. It will make the concrete more pumpable.
- Q. Does Slick-Pak II contain bentonite clay?
- A. No. Slick-Pak II does not contain bentonite or any other type of clay.

### **PRECAUTIONS**

All Fritz-Pak Concrete Admixtures should be stored in a dry location, protected from breakage, deterioration and contamination. They are not subject to damage from freezing temperatures.

### **WARRANTY**

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning uses or applications are only the opinion of Fritz-Pak Corporation and users should make their own tests to determine the suitability of these products for their own particular purposes. Because of numerous factors affecting results, Fritz-Pak Corporation makes no warranty of any kind, expressed or implied, including those of merchantability and fitness for purpose. Statements herein, therefore, should not be construed as representations or warranties. The responsibility of Fritz-Pak Corporation for claims arising out of breach of warranty, negligence, strict liability, or otherwise are limited to the purchase price of the materials.

U.S. Patents No. 4,961,790 and No. 5,120,367, No. 5,443,636 and No. 5,587,012.

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